

About Me

My scientific name Ammar Qasem and I am Physics Researcher - Subspecialty in Experimental Solid-State Physics. Most of my scientific interests focus on everything new in the field of physics. I am present in all branches of physics and determined to achieve what I want, God willing.

Education

● **Ph. D. Physics** (Experimental Solid-State Physics)
2021

Al-Azhar University, Cairo, Egypt.

Title: Study of optical and electrical properties of $As_{40}S_{60-x}Se_x$ thin film alloys.

● **M. Sc Physics**
2016

Assiut University, Assiut, Egypt.

Title: Study of optical and electrical properties of ternary thin film alloys.

● **B. Sc. Physics**
2010

grade "Very Good

Faculty of Science, Al-Baath University, Homs, Syria.

Work Address:

Al-Azhar University

Department of Physics, Faculty of Science, Al-Azhar University, Nasr City 11884, Cairo, Egypt.
(Online-Scientific Researcher).

INTI International University (Malaysia)

Department of Electrical Engineering, Faculty of Engineering & Quantity Surveying, INTI International University, 71800 Nilai, Malaysia
(Research fellow position and Online Lecturer).



AMMAR QASEM

PH.D. OF PHYSICS

- Al-Azhar University
- Faculty of Science
- Department of physics, Cairo, Egypt.

Personal Information

📍 **Home Address:** Al-Shujaa Street, Wadi Al-Qadi, Taiz, Yemen

📞 **Mobile:** 781595936

☎ **Phone (Home):** 04-210850

✉ **e-mail:** alkhteebammar36@yahoo.com

📅 **Date of Birth:** 15th March, 1982

💍 **Marital Status:** Married (two children)

🏴 **Nationality:** Yemeni

ResearchGate Profile

<https://www.researchgate.net/profile/Ammar-Qasem/stats>

Web of Science Profile

Web of Science ResearcherID: ABE-9311-2020

ORCID and Google Scholar Profiles

<https://orcid.org/0000-0002-9877-4359>

<https://scholar.google.com/citations?user=q1MxfXkAAAAJ&hl=ar>



Scientific Skills and Experiences

○ **Thin Films and Nanomaterials:**

- Expertise in the preparation and characterization of thin films.
- Proficient in the synthesis and analysis of nanomaterials, including their structural, optical, and electrical properties.
- In-depth knowledge of the fabrication and performance assessment of solar cells.

○ **Analytical Techniques:**

- Skilled in the analysis of linear and nonlinear optical properties of materials.
- Experienced in conducting and interpreting Hall effect measurements for evaluating electrical properties.
- Proficient in studying thermal pathways and their implications for material performance.
- Competent in analyzing X-ray diffraction (XRD) curves to determine crystalline structures and phase compositions.
- Expertise in evaluating optical and electrical data for various materials.
- Knowledgeable in assessing sheet resistance and its impact on material performance.

○ **Renewable Energy and Hydrogen Production:**

- Experienced in renewable energy methods and technologies for sustainable energy generation.
- Proficient in various methods of hydrogen production, including electrolysis and other innovative techniques.

○ **Environmental and Waste Management:**

- Knowledgeable in methods for the disposal of fly ash from power plants, with an understanding of environmental regulations and best practices.

○ **Scientific Research and Publishing:**

- Skilled in writing scientific research papers and publishing in reputable journals.
- Experienced in using a variety of scientific programs and software to support research activities.
- Preparing and publishing a lot of research related to lithium batteries with a promising future.

○ **Interdisciplinary Knowledge:**

- Comprehensive understanding of physics concepts with strong proficiency in mathematics and chemistry, facilitating interdisciplinary research and problem-solving.

Publication Metrics in ResearchGate

ResearchGate

Home

Questions

Jobs

Search for research, journals, people, etc.

103

18



Ammar Qasem Edit

Doctor of Philosophy (PhD) · Researcher at Al-Azhar University

Egypt | Website

99 Assistant Professor of Experimental Solid-State Physics (Research fellow position at INTI International University).

Research Interest Score 1,330

Citations 1,010

h-index 19

Citations over time

Overall publications stats

1,330 Research Interest Score +1.6 last week	47,674 Reads +170 last week	1,010 Citations ---	4,410 Recommendations ---
--	--	---	---

ResearchGate

Home

More



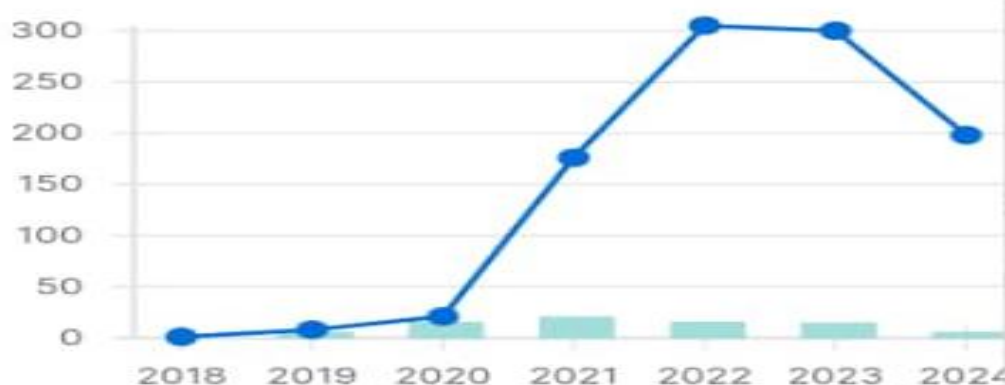
Citations since 2018



74 Research
Items



1009
Citations



[Learn about citations on ResearchGate](#)

Compared to all ResearchGate members

Your Research Interest Score is higher than 94% of ResearchGate members.

Compared by date of first publication

Your Research Interest Score is higher than 98% of ResearchGate members who first published in 2013.

Compared by research area

Your Research Interest Score is higher than 92% of researchers with work related to:

Solid State Physics

Publication Metrics in Google Scholar

متابعة

Dr. Ammar Qasem

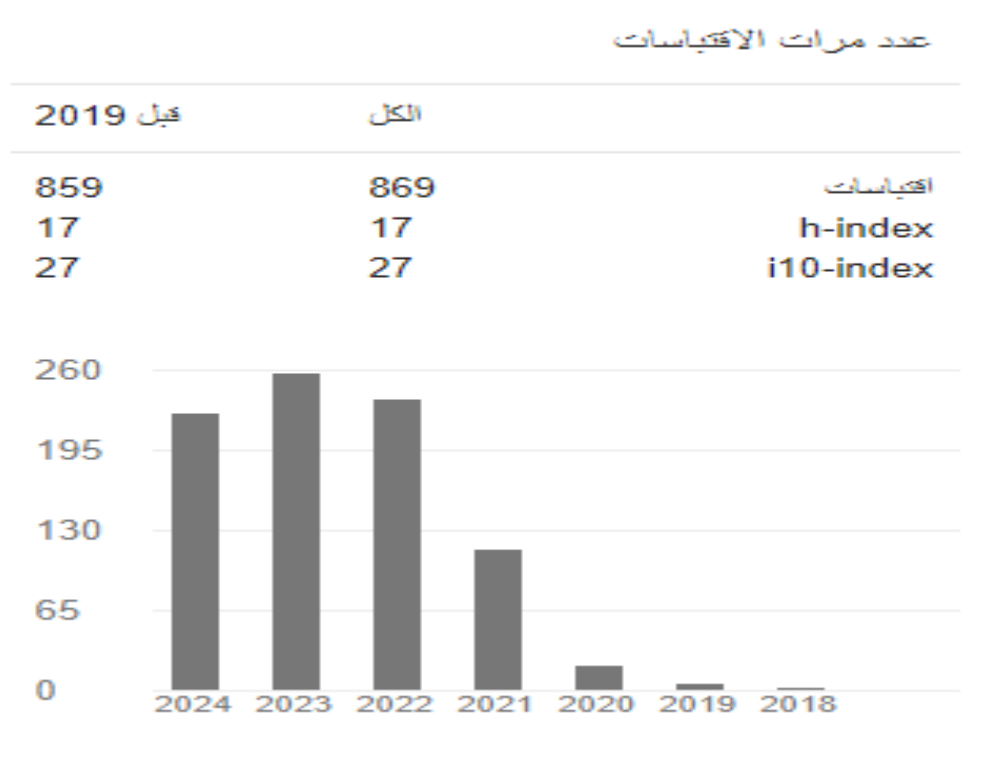
Assistant Professor, Al-Azhar University, Egypt

ليس هناك بريد إلكتروني تم التحقق منه

Thin films



السنة	عدد مرات الاقتباسات	عنوان	
2019	93	Optical constants, dispersion parameters and non-linearity of different thickness of As ₄₀ S ₄₅ Se ₁₅ thin films for optoelectronic applications ER Shaaban, MY Hassaan, MG Moustafa, A Qasem, GAM Ali Optik 186, 275-287	☐
2021	72	The main role of thermal annealing in controlling the structural and optical properties of ITO thin film layer M Ahmed, A Bakry, A Qasem, H Dalir	☐



Publication Metrics in Web of Science



Ammar Qasem



(Qasem, Ammar)

[Edit](#)

Identifiers

Web of Science ResearcherID: ABE-9311-2020

<https://orcid.org/0000-0002-9877-4359>

Organizations

INTI International University, Al Azhar University, Assiut University

Subject Categories

Materials Science; Physics; Optics; Engineering; Chemistry

Metrics

[← Open dashboard](#)

Profile summary

48	Total documents
48	Publications indexed in Web of Science
47	Web of Science Core Collection publications
1	Preprint
0	Dissertations or Theses
0	Non-indexed publications
51	Verified peer reviews
0	Verified editor records

Web of Science Core Collection metrics

16

H-Index

47

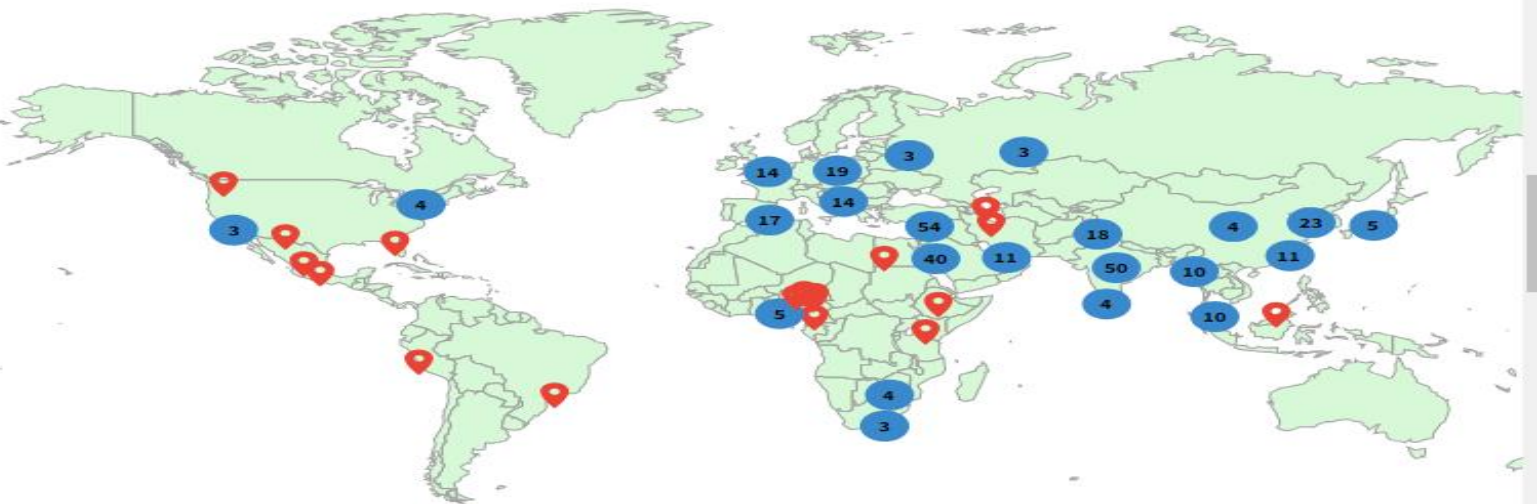
Publications

795

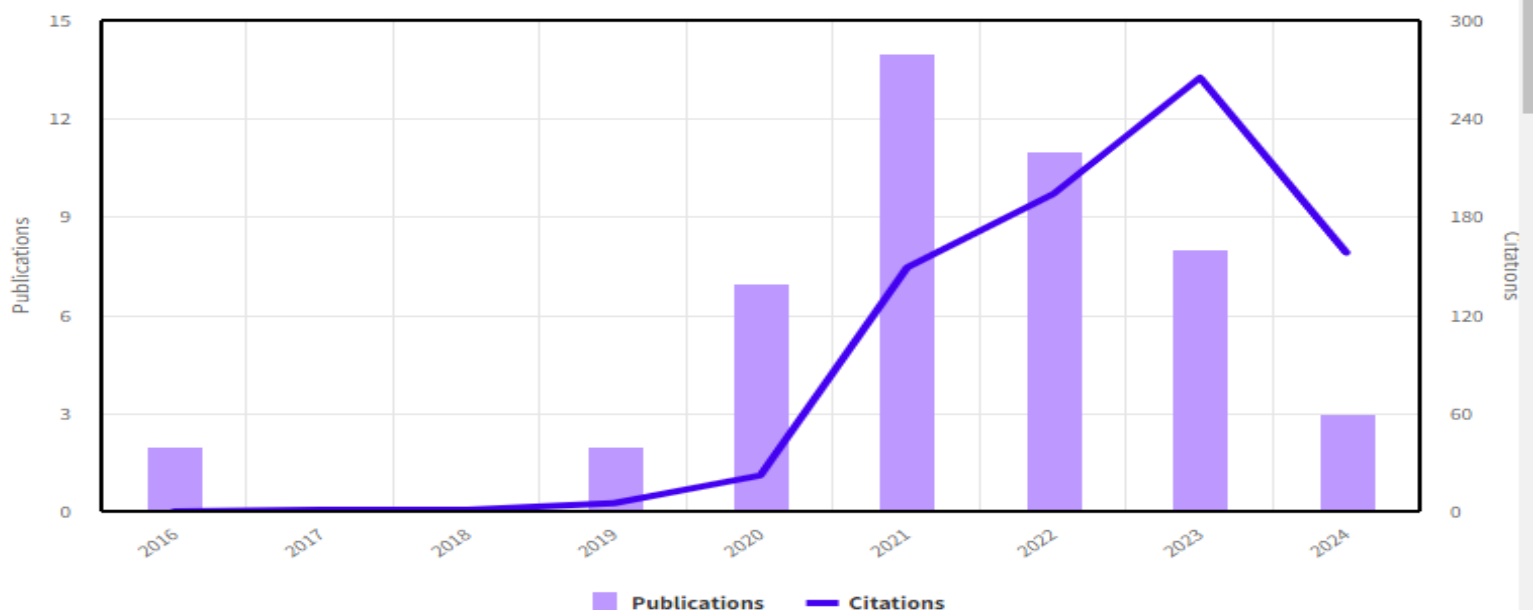
Sum of Times Cited

352

Citing Articles



Times Cited and Publications Over Time



Publishing Summary

For manuscripts published from date range January 2016 - May 2024

(11) Optical Materials	(5) Applied Physics A Solids and Surf...
(4) Optics & Laser Technology	(4) Chalcogenide Letters
(3) Journal of Alloys and Compounds	(2) Journal of Materials Science: Mat...
(2) Physica B: Condensed Matter	(2) Physica Scripta
(2) Journal of Electronic Materials	(2) Journal of Inorganic and Organo...
(2) Optical and Quantum Electronics	(1) Indian Journal of Physics
(1) International Journal of Energy R...	(1) Optik - International Journal for L...
(1) Journal of Non-Crystalline Solids	(1) Acta Physica Polonica A
(1) Solid State Sciences	(1) Materials Chemistry and Physics
(1) ArXiv	

Reviewer Summary

For manuscripts reviewed from date range January 2016 - May 2024

(7) Coatings	(5) Energies
(3) Journal of Materials Science: Mat...	(3) Materials
(3) Molecules	(3) Journal of Alloys and Compounds
(2) Crystal Research and Technology	(2) Journal of Coatings Technology a...
(2) Inorganics	(2) Inorganic Chemistry Communica...
(2) Gels	(2) Physica B: Condensed Matter
(2) Crystals	(2) Microelectronics International
(2) International Journal of Energy R...	(1) Journal of Nonlinear Optical Phys...
(1) Micromachines	(1) Electronics
(1) International Journal of Ambient ...	(1) Silicon
(1) Applied Sciences	(1) Hybrid Advances
(1) Sustainability	(1) AIMS Energy

51 REVIEWS OF 40 MANUSCRIPTS

For manuscripts published from date range January 2016 - May 2024

Enhancing opto-electronic devices by inclusion of Mn to CdO nanoparticles' structural: linear, and non-linear optical characteristics

Reviewed: Nov 2023 for Journal of Nonlinear Optical Physics and Materials

Electric Arc Furnace Electrode Movement Control System Based On Fuzzy Arc Length Identifier

Reviewed: Oct 2023 for Energies

The incorporation of ZnS/V/TBAI in CMC/PVP/PEG blend to modify the structural, linear/nonlinear optical, and the electrical properties

Reviewed: Oct 2023 for Journal of Materials Science: Materials in Electronics

Joint Detection and State Estimate with G5As in PMU-Based Smart Grids

Reviewed: Jun 2023 for Energies

Growth and Characterization of Lanthanum Germanide Thin Films by the Thermal Evaporation Technique

2 rounds from Apr 2023 to Jun 2023 for Crystal Research and Technology

Permanent Magnet Flux Linkage Analysis and Maximum Torque per Ampere (MTPA) Control of High Saturation IPMSM

Reviewed: Jun 2023 for Energies

Influences of Magnetization Direction on the Flux Leakage Field of Weld Defects

Reviewed: May 2023 for Coatings

Research on Dynamic Discrete Equivalent Model Identification Method for the Grid-Connected PV Power Generation System under Different Scenarios

2 rounds from Apr 2023 to May 2023 for Energies

High crystal quality and low residual stress composite piezoelectric films prepared by a two-step method

Reviewed: Apr 2023 for Micromachines

Controlling The Optical And Electrical Properties Of Pva-co 2 O 3 -sic Nanostructure For Flexible Optoelectronic Applications

Reviewed: Dec 2022 for Silicon

Enhancing the UV response of all-inorganic perovskite photo-detectors by introducing the gallium oxide layer

Reviewed: Dec 2022 for Applied Sciences

Structure, Disorderiness And Nonlinear Optical Properties Of Different Dye-modified Tio2 Ceramics

Reviewed: Dec 2022 for Hybrid Advances

A coupled Monte Carlo-Molecular Dynamics scheme for sputtered particle transport in magnetron sputtering

2 rounds from Nov 2022 to Dec 2022 for Materials

-

Reviewed: Nov 2022 for Journal of Coatings Technology and Research

Structural, Optical and Mechanical Investigations on Pure and Co-doped Sno2 Thin Films Samples

2 rounds from Oct 2022 to Nov 2022 for Inorganic Chemistry Communications

Effects of Substrates on Thin-Film Growth of Nickel-Zinc Ferrite by Spin Spray Deposition
Reviewed: Mar 2023 for Coatings

Hydrogen diffusion in nickel doped iron: A First-principles study
Reviewed: Mar 2023 for Materials

Simulation and experiment of the effect of magnetic focusing on the diode characteristics in a 2.45-GHz cooker magnetron
Reviewed: Feb 2023 for Electronics

Numerical Simulation of Graphene Growth by Chemical Vapor Deposition Based on Tesla Valve Structure
Reviewed: Jan 2023 for Coatings

Characterization of Structure, Morphology, Optical and Electrical Properties of AlN-Al-V Multilayer Thin Films Fabricated by Reactive DC Magnetron Sputtering
Reviewed: Jan 2023 for Coatings

Theoretical study of the solution of the diffusion equation: effect of the magnetic field on the silicon solar cell
Reviewed: Jan 2023 for International Journal of Ambient Energy

Substituted Expanded Coronene derivatives: Synthesis, Characterization and Nonlinear Optical Properties
Reviewed: Dec 2022 for Molecules

Cu₂Zn(Sn_{1-x}Si_x)Se₄ : Structural characterization, vibrational and physical properties of CZTSe-derivatives
2 rounds from Nov 2022 to Dec 2022 for Inorganics
2 rounds from Aug 2022 to Aug 2022 for Crystals

Mechanistic of CdS Thin Film Formation via Chemical Bath Deposition: Role of Sulphur Precursor Concentration on the Microstructural and Optoelectronic Properties

Multifunctional fluorinated ammonium salt for high-performance all-inorganic CsPbI₂Br
Reviewed: Nov 2022 for Journal of Materials Science: Materials in Electronics

AFORS-HET Simulation for Investigating the Performance of ZnO/n-CdS/p-CdTe /Ag Solar Cell Depending on CdTe Acceptor Concentration and Temperature
2 rounds from Sep 2022 to Nov 2022 for Physica B: Condensed Matter

Reduction in edge beading defects using two-axis spin coating technology: an analytical, numerical, and experimental study
Reviewed: Nov 2022 for Journal of Coatings Technology and Research

Simplification of Swanepoel method for estimating the film thickness and complex index of refraction used only the lower envelope
Reviewed: Nov 2022 for Journal of Materials Science: Materials in Electronics

Characteristics of Acoustic Emission Response during Granite Splitting after High Temperature-Water Cooling Cycles
Reviewed: Oct 2022 for Sustainability

Anti-symmetric Chiral Response and Chiral origin of twisted angle complementary In Twisted Bilayer Graphene
2 rounds from Sep 2022 to Sep 2022 for Molecules

Structural, Electrical and Optical Characterization of ZnO:Li Thin Films
Reviewed: Sep 2022 for Coatings

Scientific publications

- ♦ **Characterization of the optical constants and dispersion parameters of chalcogenide $\text{Te}_{40}\text{Se}_{30}\text{S}_{30}$ thin film: thickness effect**
 - ♦ MI Abd-Elrahman, MM Hafiz, Ammar Qasem, MA Abdel-Rahim
 - ♦ **Applied Physics A 122.2 (2016): 1-6**
- ♦ **Heat treatment and thickness-dependent electrical study of $\text{Se}_{50}\text{Te}_{20}\text{S}_{30}$ thin film $\text{Te}_{40}\text{Se}_{30}\text{S}_{30}$ thin film: thickness effect**
 - ♦ MI Abd-Elrahman, MM Hafiz, Ammar Qasem, MA Abdel-Rahim
 - ♦ **Applied Physics A 122.8 (2016): 1-6.**
- ♦ **Optical constants, dispersion parameters and non-linearity of different thickness of $\text{As}_{40}\text{S}_{45}\text{Se}_{15}$ thin films for optoelectronic applications**
 - ♦ ER Shaaban, MY Hassaan, MG Moustafa, Ammar Qasem, GAM Ali
 - ♦ **Optik 186 (2019): 275-287.**
- ♦ **Investigation of Structural and Optical Properties of Amorphous-Crystalline Phase Transition of $\text{As}_{40}\text{S}_{45}\text{Se}_{15}$ Thin Films.**
 - ♦ ER Shaaban, MY Hassaan, MG Moustafa, Ammar Qasem, GAM Ali, ES Yousef
 - ♦ **Acta Physica Polonica, A. 136.3 (2019).**
- ♦ **Sheet resistance–temperature dependence, thermal and electrical analysis of $\text{As}_{40}\text{S}_{60-x}\text{Se}_x$ thin films**
 - ♦ ER Shaaban, MY Hassaan, MG Moustafa, Ammar Qasem
 - ♦ **Applied Physics A 126.1 (2020): 1-10.**
- ♦ **Indium incorporation effects on optical constants and nonlinearity of 1000 nm of quaternary Se-Zn-Te-In films**
 - ♦ ESY M. M. Soraya, E. R. Shaaban, M. I. Eman, Ammar Qasem
 - ♦ **Applied physics A 127 (2021): 1-11.**
- ♦ **Optical parameters and electronic properties for the transition of the amorphous-crystalline phase in $\text{Ge}_{20}\text{Te}_{80}$ thin films**
 - ♦ G Abbady, Ammar Qasem, AM Abd-Elnaiem
 - ♦ **Journal of Alloys and Compounds 842 (2020): 155705.**
- ♦ **Indium Incorporation Effects on Optical Properties of Quaternary Chalcogenide Se-Zn-Te-In Films**
 - ♦ MM Soraya, ER Shaaban, M Eman, Ammar Qasem, SA Mahmoud, E Yousef
 - ♦ **Chalcogenide Letters 17.3 (2020): 133-145**

- **Effect of Se Additive on The Structure, Pre-Crystallization Criteria and Crystallization Kinetic Parameters in Glassy Melt-Quenched As-S Alloy**
- Ammar Qasem, ER Shaaban, MY Hassaan, S Rafique, MG Moustafa
- **Chalcogenide Letters 17.6 (2020): 277-300**
- **Investigation of Optical and Electrical Properties of Different Compositions of As-S-Se Thin Films at Thickness 725 nm With High Precision Using a Wedge-Shaped Optical Model**
- Ammar Qasem, Shaaban, E. R., Hassaan, M. Y., Moustafa, M. G., Hammam, M. A., & Yousef, E. S.
- **Journal of Electronic Materials 49.10 (2020): 5750-5761**
- **Optical constants and dispersion parameters of amorphous $\text{Se}_{65-x}\text{As}_{35}\text{Sb}_x$ thick films for optoelectronics**
- A Gadalla, FA Anas, Ammar Qasem, ER Shaaban
- **Indian Journal of Physics 95.9 (2021): 1853-1863**
- **Optical and electronic properties for As-60 at. % S uniform thickness of thin films: Influence of Se content**
- Ammar Qasem, Hassaan, M. Y., Moustafa, M. G., Hammam, M. A., Zahran, H. Y., Yahia, I. S., & Shaaban, E. R.
- **Optical Materials 109 (2020): 110257**
- **Extraction of thickness, linear and nonlinear optical parameters of $\text{Ge}_{20+x}\text{Se}_{80-x}$ thin films at normal and slightly inclined light for optoelectronic devices**
- M Alzaid, Ammar Qasem, ER Shaaban, NMA Hadia
- **Optical Materials 110 (2020): 110539.**
- **Temperature and frequency dependence of AC electrical conductivity, dielectric permittivities, modulus and impedance parts for thermally deposited $\text{Se}_{80}\text{S}_{20}$ thin film**
- HI Elsaeedy, Ammar Qasem, M Mahmoud, HA Yakout, SA Abdelaal
- **Optical Materials 111(2021), 110693**
- **Sn-induced changes in the structure and optical properties of amorphous As–Se–Sn thin films for optical devices**
- ZA Alrowaili, MM Soraya, TA Alsultani, Ammar Qasem, ER Shaaban
- **Applied Physics A 127.2 (2021): 1-11.**
- **The main role of bismuth in controlling linear and nonlinear optical, electronic and electrical parameters of Se–Ge–Bi thin films**
- AFAL Naim, AH Farha, Ammar Qasem, ER Shaaban
- **Materials in Electronics 32.6 (2021): 6866-6882**
- **The main role of thermal annealing in controlling the structural and optical properties of ITO thin film layer**
- M Ahmed, A Bakry, Ammar Qasem, H Dalir
- **Optical Materials 113 (2021): 110866.**

- **Structure and AC electrical characterization for amorphous Se₅₀Te₅₀ thin-film fabricated by thermal evaporation technique**
 - ZA Alrowaili, Ammar Qasem, ER Shaaban, M Ezzeldien
 - **Physica B: Condensed Matter 612 (2021): 412975**
- **The pivotal role of TiO₂ layer thickness in optimizing the performance of TiO₂/P-Si solar cell**
 - HI Elsaedy, Ammar Qasem, HA Yakout, M Mahmoud
 - **Journal of Alloys and Compounds 867 (2021): 159150.**
- **The precise role of UV exposure time in controlling the orbital transition energies, optical and electrical parameters of thermally vacuum evaporated Se₅₀Te₅₀ thin film**
 - HI Elsaedy, Ammar Qasem, M Mahmoud, HA Yakout, SA Abdelaal
 - **Optical Materials 115 (2021): 111053**
- **The pivotal role of thermal annealing of cadmium telluride thin film in optimizing the performance of CdTe/Si solar cell: dark of (I-V) characteristics**
 - B. Alshahrani, Sara Nabil, H. I. Elsaedy, H. A. Yakout, Ammar Qasem
 - **Journal of Electronic Materials 50.8 (2021): 4586-4598.**
- **The Significant Role of ZnSe Layer Thickness in Optimizing the Performance of ZnSe/CdTe Solar Cell for Optoelectronic Applications**
 - H. I. Elsaedy, Abeer A. Hassan, H. A. Yakout, Ammar Qasem
 - **Optics & Laser Technology 141 (2021): 107139.**
- **Pre-Crystallization Criteria and Triple Crystallization Kinetic Parameters of Amorphous-Crystalline Phase Transition of As₄₀S₄₅Se₁₅ Alloy**
 - Alzaid, M., Abd-el Salam, M. N., Ammar Qasem, Shaaban, E. R., & Hadia, N. M. A
 - **Journal of Inorganic and Organometallic Polymers and Materials 31.12 (2021): 4563-4580.**
- **Extracting the Optical Parameters of the Fabricated (Al/Bare Borosilicate Crown Glass, BK-7/Ag) Multiple Layers**
 - Ammar Qasem, Mahmoud, M., Said, N. M., & Rajhi, F. Y.
 - **Journal of Inorganic and Organometallic Polymers and Materials 31.11 (2021): 4326-4337.**
- **Tuning structural, optical, electrical and photovoltaic characteristics of n-type CdS_{1-x}Sb_x layers for optimizing the performance of n-(CdS: Sb)/p-Si solar cells**
 - Ammar Qasem, Alshahrani, B., Yakout, H. A., Abbas, H. A. S., & Shaaban, E. R.
 - **Applied Physics A 127.11 (2021): 1-13**
- **Effective role of temperature in improving the structural, optical and photovoltaic characteristics for n-Zn_{0.5}Cd_{0.5}Te/p-CdTe solar cells**
 - Ammar Qasem, Mahmoud, M., Elsaedy, H. I., Mostafa, M. S., & Shaaban, E. R.
 - **Optical Materials 122 (2021): 111746.**

- **Tunability of structural, optical, and electrical properties of pristine MnSe thin film by gradually changing temperature for optoelectronic applications**
- Ammar Qasem, Said, N. M., Hassan, A. A., Yakout, H. A., & Shaaban, E. R.
- **Physica B: Condensed Matter 627 (2022): 413600.**
- **Effective role of cadmium doping in controlling the linear and non-linear optical properties of non- crystalline Cd-Se-S thin films**
- Ammar Qasem, Hassan, A. A., Rajhi, F. Y., Abbas, H. A. S., & Shaaban, E. R.
- **Journal of Materials Science: Materials in Electronics 33.4 (2022): 1953-1965.**
- **Extraction of thermal and optical parameters for As–Se–Te thin films according to phase-change pathways**
- Ammar Qasem, Alshahrani, B., Yakout, H. A., Abbas, H. A. S., & Shaaban, E. R.
- **Materials Chemistry and Physics 277 (2022): 125620**
- **Determination of optical bandgap energy and optical characteristics of Cd₃₀Se₅₀S₂₀ thin film at various thicknesses**
- Ammar Qasem, Mostafa, M. S., Yakout, H. A., Mahmoud, M., & Shaaban, E. R.
- **Optics & Laser Technology 148 (2022): 107770.**
- **Adapting the Structural, Optical and Thermoelectrical Properties of Thermally Annealed Silver Selenide (AgSe) Thin Films for Improving the Photovoltaic Characteristics of the Fabricated n-AgSe/p-CdTe Solar Cells**
- Ammar Qasem, Alrafai, H. A., Alshahrani, B., Said, N. M., Hassan, A. A., Yakout, H. A., & Shaaban, E.R.
- **Journal of Alloys and Compounds 899 (2022): 163374.**
- **Effect of mixing on nickel tartrate and Ni/NiO core/shell nanoparticles: Implications for morphology, magnetic, optical, dielectric and adsorption properties**
- Amrani, M. A., Alrafai, H. A., Al-nami, S. Y., Labhasetwar, N. K., & Ammar Qasem
- **Optical Materials 127 (2022): 112321**
- **Green synthesis of Size-Controlled copper oxide nanoparticles as catalysts for H₂ production from industrial waste aluminum**
- Amrani, M. A., Alrafai, H. A., Al-nami, S. Y., Obeidat, F., Alwabhani, F., Alhammadi, M. A., & Ammar Qasem.
- **International journal of energy research 46.10 (2022): 14023-14035.**
- **Profundity Study on Structural and Optical Properties of Heavy Oil Fly Ash (HOFA) doped Calcium Carbonate (CaCO₃) Nanostructures and Thin Films for Optoelectronic Applications**
- Faisal G. AL-Maqate, Ammar Qasem, Thamer Alomayri, and et al.
- **Optical materials 131 (2022): 112719.**
- **Extended Study into the Prominence of Aluminum Content in Controlling Optical Parameters, Thermal Properties, Electrical Conductivity and Dielectric Behavior of Amorphous Al-Se-Te Thin Films for Optoelectronic Applications**
- A. Alqahtani, H. A. Yakout, E. R. Shaaban, Ammar Qasem
- **Optics & Laser Technology 156 (2022): 108459.**

- **Implications changing of the CdS window layer thickness on photovoltaic characteristics of n-CdS/i-AgSe/p-CdTe solar cells**
- E. E. Assem, A. Ashour, Essam R. Shaaban, Ammar Qasem
- **Chalcogenide Letters 19(11): (2022) 825-839**
- **Effective Role of Vacuum Annealing in Improving Structural, Optical, and Electrical Properties of SiO₂/Ag/ZnO Multilayers deposited by RF Sputtering for Optoelectronic Applications**
- Ammar Qasem, Abeer A. Hassan, Samar Y. Al-nami, H. A. Alrafai, E. R. Shaaban
- **Physica Scripta 98.1 (2022): 015825.**
- **Remarkable Effects of Laser Irradiation in Adjusting the Structural, Morphological, and Optical Properties of Spray Pyrolysis-Synthesized NiO Nanostructured films for Optoelectronic Applications**
- Ammar Qasem, Shoroog Alraddadi, Eshraq Al-Amery, H. A. Alrafai, E. R. Shaaban
- **Optics & Laser Technology (2023)**
- **Exceptional and innovational analysis of n-CdS/p-Si solar cells based on software packages and bias point models: insights into theoretical and experimental characteristics of fabricated solar cells**
- Abeer Hassan, Samar Alnami, H. A. Alrafai, Eshraq al-amery, E. R. Shaaban
- **Chalcogenide Letters (2023)**
- **Efficient optimization of the Li-ion conductivity of borovanadate glass materials for Li- ion batteries**
- Mohamed Gaber, K M A Saron, Mohamed Saad, Mohammed S. Alqahtani, Ammar Qasem
- **Solid State Sciences (2023)**
- **Distinctive spectroscopic features of samarium ions in the lithium zinc-borate glasses**
- Mohamed Gaber, Mustafa Ammar, Mohamed Saad, Ammar Qasem, Eman Abdallah
- **Optical materials (2023)**
- **Improving optical features and electrochemical efficiency of vanadium-doped lithium borate glasses for Li-ion batteries**
- Ammar Qasem, Abdel Hafez, A. Amal, Abeer Hassan, Samar Alnami
- **Journal of Non-Crystalline Solids (2023)**
- **Effective role of the SnO₂ cap layer thickness in improving the structural morphology, optical properties and enhancing the photovoltaic performance of fabricated n-SnO₂/n-CdS/p-Si solar cells**
- Ammar Qasem, Shoroog Alraddadi. Amal, Eshraq al-amery, A. Z. Mahmoud, E. R. Shaaban
- **Optical and Quantum Electronics (2023)**

• **Ramifications of Chromium-to-Bismuth Ions Substitution on the Structural and Optical Characteristics of Bismuth Borate Glasses for Optoelectronic applications**

- Mohamed Gaber, H M Mokhtar, Mohsen H Abdelwahed, Ammar Qasem, Mohamed Yousry Hassaan
- **Physica Scripta (2024)**

• **Extended-analysis for ZnO monolayers, (TiO₂ & WO₃)/ZnO bilayers, and WO₃ /TiO₂/ZnO multilayers deposited on silica glass substrates by RF sputtering as promising cap layers in optoelectronic applications**

- Aminah Alqahtani, Shoroog Alraddadi, Ali S Alshomrany, Ammar Qasem
- **Optical Materials (2024)**

• **Characterization of Structural, Optical, Sensing, and Electrical Implications of Mn-ion Introducing in MnSe_{75-x}S₂₅ Thin Films for Optoelectronic and Gas Sensor Applications**

- Ammar Qasem, Siham Khalaf Alla Abdelrahim, Abeer Hassan, Shoroog Alraddadi, Eshraq al-amery, E. R. Shaaban, A. Z. Mahmoud
- **Optik (2024)**

• **Transparent titanium ions doped lead-borate glasses with optimized persistent optical features for optoelectronic applications**

- A K Aladim, A M Bakry, L S El-Sherif, S Hassaballa, A. Ibrahim, Ammar Qasem, Mohamed Gaber
- **Optical materials (2024)**

• **Study of optical and electrical properties of As₄₀S_{60-x}Se_x thin film alloys**

- Ammar Qasem
- **Ph.D thesis**

• 12 Other research papers have been submitted to journals, awaiting a response.

• I have been reviewed 102 papers for several scientific journals shown above 51 papers from it in Web of Science Profile.



جامعة البعث

كلية العلوم

رقم ۵۷۱۲ -

الرقم المتسلسل:

وَتَقِيَّتُكُم بَالُكُمْ

الإجازة في العلم - قسم الضمائر

استناداً إلى قرار مجلس جامعة البعث رقم ٦١...٢٠١٠/٢/٥ تاريخ

منح السيد عمار عبدالرحمن عبيد بن عبد الرحمن / المولود في ٢٤-١٢-١٩٨٠

عام ١٩٨٢ ألف وتسعمائة مائتين من المتوَّع بالجنسية البريَّة لِهَيْمِيَّة

درجة الإجازة في العلم - قسم الفيزياء

من مرتبة إليه هـ أ ومعدل (٤٩,٤٤) أ ب ج د هـ
وتتفاوت بين الأمانة والدرج
بنتيجة امتحانات العام الدراسي ٢٠٠٩ - ٢٠١٠ امتحانات الفصل الثاني

نظمها

دققها ناهد اسباب دفعه

عميد الكلية

رئيس شعبة شؤون الطلاب

عميد كلية العلوم

خبيب ابراهيم

البحر من البحار

حمص في / / ١٤ هـ
الموافق لـ / / ٢٠ م





جمهورية مصر العربية
المجلس الأعلى للجامعات
شهادة معادلة

0135488

1908



1942

1950

بناء على الطلب المقدم من/عمار عبد الوهاب عبده قاسم بشأن معادلة درجة
الاجازة في العلوم-قسم الفيزياء-جامعة البعث-كلية العلوم-الجمهورية العربية
السورية.

تشهد أمانة المجلس بأنه صدر قرار المجلس الأعلى للجامعات بتاريخ
١٩٧٤/٥/٤م بالموافقة على إعتبار الدرجة الجامعية الأولى التي تمنحها كل من
الجامعات العربية معادلة للدرجة الجامعية الأولى التي تمنحها الجامعات المصرية في
التخصصات المناظرة ، ويجوز عند قيد الطالب للدراسات العليا أن تفرض الكلية
المعنية المقررات التكميلية التي تراها لازمة للقيد في كل تخصص. -

وقد أعطيت هذه الشهادة بعد سداد الرسم المقرر بالقسيمة ٣٣ ح.ع رقم
(٠١٥٤٠٥٤) بتاريخ ٢٠١٣/١٠/٣. —

يعتمد

1994

رئيس الإدارة المركزية

٢٠١٣-٩



مدير الإدارة

2005

المؤقتة

٢٠١٣

2005



جامعة اسيوط

شهادة ماجستير

M 028190

كلية العلوم / الدراسات العليا

وافق مجلس جامعة أسيوط بجلسته المنعقدة في ٢٠١٨/٠٢/٢٧ على منح
الطالب / عمار عبد الوهاب عبده قاسم
درجة الماجستير في العلوم الفيزياء " فيزياء الجوامد التجريبية "
بناء على توصية مجلس الكلية في ٢٠١٨/٠٢/٢١ وكان عنوان الرسالة :
دراسة الخواص الضوئية والكهربية لأغشية رقيقة من سبائك ثلاثية

تحريراً في : ٢٠١٨/٣/١

الموظف المختص

مراجع

مدير
إدارة الدراسات العليا

عميد الكلية

" أ.د/ حسن محمد حسن الهواري "



٢٠١٨/٣/١

٢٠١٨/٣/١



٣٧٤٤٣





graviano 25/6/2017

جامعة اسيوط شهادة ماجستير

M 028193

Assiut University
Faculty of Science



Certificate

This is to certify that Mr./ Ammar Abdulwahab Abdo Qasem

Has obtained the M.Sc. degree in Science / Physics

" Experiment Solid State Physics " On 27/2/2018

The subject of the thesis is :

Study of optical and electrical properties of ternary
thin film alloys

This is to be presented to "Whom it may concern"

Assiut : 1/3/2018

Registrar

A.A. Ahmed
1-3-2018

Dean of the Faculty

A. Abusehla
Prof. Dr. Hassan Mohamed Hassan El-Hawary





10-9-2020



HH0010080

شهادة مؤقتة

تشهد كلية العلوم / بنين / بالقاهرة

الكلية حاصلة على شهادة الاعتماد من هيئة ضمان جودة التعليم والاعتماد

بأن السيد **عمار عبد الوهاب عبده قاسم** الجنسية **بماني**

تاريخ الميلاد **١٩٨٢/٠٣/١٥** محل الميلاد **اليمن**

جواز سفر **٨٢١٢٩١٢** جهة صدور **القاهرة** تاريخ صدور **٢٠١٨/١٠**

حصل على درجة العالمية (دكتوراة الفلسفة) في العلوم/فيزياء

تخصص: **فيزياء الجوامد**

موضوع الرسالة

دراسة الخواص الضوئية والكهربية لأغشية رقيقة من سبائك الزرنيخ-كبريت-سيلينيوم As-S-Se

إعتماد مجلس الكلية: **٢٠٢١/٠٨/٠٨** الموافق **٢٩ ذوالحجة ١٤٤٢ هـ**

إعتماد مجلس الجامعة: **٢٠٢١/٠٩/٢٩** الموافق **٢٢ صفر ١٤٤٣ هـ**



مدير إدارة الكلية

الدراصة العليا

المختص

سدد رسم الشهادة قسيمة رقم / **٠١٩٨٧١٩** مجموعة رقم **١٣١٤**





HH0010401



10-9-2020

Cairo

Certificate

The Faculty certifies that: Ammar Abdulwahab Abdo Qasem,

Date of Birth: 15/3/1982 Place of Birth: Taiz-Yemen Nationality: Yemeni

ID card No.: 08212912 Issued in: Cairo In: 21/10/2018.

Has obtained Doctor of Philosophy in Sciences/ Physics

Specialty: Solid State Physics

Thesis Title:

"Study of optical and electrical properties of $As_{40}S_{60-x}Se_x$ thin film alloys"

Approved by the Faculty Board on: 8/8/2021

Approved by the University Board on: 29/9/2021

This certificate has been issued at his own request to be submitted To Whom It May Concern.

The authority to which the certificate is submitted should ascertain that the holder of the certificate is the same person mentioned herein.

Date of Issue: 8/3/2022

Official in Charge

Graduate Studies

Faculty Director

Dean

(Signed)

Nassef

(Signed)

A. Fadel

(Signed)



(Signed)

Rebly





جامعة أسيوط
وحدة الميكروسكوب الإلكتروني



Assiut University
Electron Microscope Unit
Assiut - Egypt



Certificate

Dr. | Ammar Abdulwahab Abdo Qasem

Has Successfully Completed a Training Course in the
Uses of Electron Microscope in the Field of Research
Diagnosis and Applications of Nanotechnology

During the Period 26-28 February 2023

Unit director

Prof. Dr. Khaled Hassanein

Prof. Dr. | Khaled M. A. Hassanein

President of the Assiut University

Prof. Dr. | Ahmed El-mushawy



Awards, Scholarships, and Honors

❖ Honor from the National Organization for Combating Illiteracy (NOFI):

I was honored by the National Organization for Combating Illiteracy (NOFI) for my distinction in high school with excellent degree.

❖ Scholarship from the Ministry of Higher Education and Scientific Research to pursue a bachelor's degree at Al-Baath University, Syria.

❖ Scholarship for Master's Preparation at Assiut University provided by the Yemeni Ministry of Higher Education and Scientific Research.

❖ Doctoral Scholarship from Al-Azhar Al-Sharif to prepare for a doctorate at Al-Azhar University in Cairo, Egypt.

❖ Best Scientific Thesis Recognition:

My doctoral thesis was selected as the best scientific thesis since publishing nine scientific papers from my doctoral thesis.

❖ Honor from Al-Huthaili Commercial Foundation:

I was received a shield, certificate of excellence, and a financial award for outstanding performance in my Master's and Doctorate degrees.

❖ Distinguished Researcher Recognition:

I was selected from among 3,000 students in Egyptian universities and scientific institutes by the Ministry of Higher Education and Scientific Research as a distinguished researcher under the title "Stars in the Scholarship Sky." I was chosen to represent the distinguished scholars at the first scientific scholarship conference (January 2024), and my excellence was highlighted on the Ministry's official page in Facebook. Additionally, I was honored by the Ministry of Higher Education during the conference.

Scientific Reviewers to scientifically recommend me

Names and contact details (address, e-mail address and telephone number) of two reference persons

Essam R. Shaaban (Full Professor); Professor of Physics, Physics Department, Faculty of Science, Al-Azhar University, branch Assiut, 71516, Egypt

Email: esam_ramadan2008@yahoo.com

HP: +201093344297

Google Scholar: E R Shaaban

SCOPUS ID: 2344915200

Research Gate: <https://www.researchgate.net/profile/Essam-Shaaban>

M. Y. Hassaan (Full Professor); Professor of Physics, Physics Department, Faculty of Science, Al-Azhar University, Cairo, Egypt

Email: myhassaan@yahoo.com

HP: +201222316200 /+201028898516

Google Scholar: M. Y. Hassaan

Research Gate: <https://www.researchgate.net/profile/Mohamed-Hassaan>